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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/020,967

12/19/2001

Angelo S. Arcaria

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06/09/2004

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EXAMINER

PREVIL, DANIEL

ART UNIT

PAPER NUMBER

2636

DATE MAILED: 06/09/2004

8

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/020,967

Applicant(s)

ARCARIA, ANGELO S.

Examiner

Daniel Previl

Art Unit

2636

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 4-27-2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All   b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)                      4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)                      5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_                      6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

This action is responsive to communication filed on April 27, 2004.

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding claims 1, 11, 14, the limitation "the first and second capacitor are detachably" considers as a new matter because it was not described in the specification.

Claims 2-10, 12-13, 15-26 are rejected for the same reason since they depend from rejected claims.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Kroll et al. (US 2003/0003950).

Regarding claim 1, Kroll discloses an electronic device (cellular telephone) (abstract) comprising: a CPU (audio controller 60); a signal generating circuit 100, wherein the signal-generating circuit 100 comprises RC circuitry 48, 52, 54, 50, 56, 58 having a first a first capacitor 48 and a second capacitor 50, the first and second capacitor are detachably coupled to signal generating circuit 100 and are switched into the signal generating circuit 100 by the CPU (audio controller 60) to extend the length of an output signal (fig. 4; page 2, ref. 0037).

Regarding claim 2, Kroll discloses the CPU outputs a voltage square wave (fig. 13).

Regarding claim 3, Kroll discloses a unity follower circuit that buffers the voltage square wave and generates a buffered voltage (fig. 4).

Regarding claim 4, Kroll discloses an adder circuit that receives the buffered voltage (fig. 4).

Regarding claim 5, Kroll discloses current voltage to the RC circuitry (page 3, ref. 0049).

Regarding claim 6, Kroll discloses a first voltage divider circuit that establishes a charge voltage on the first capacitor when it is switched into the signal generating circuit and on the second capacitor when it is switched into the signal generating circuitry (fig. 4).

Regarding claim 7, Kroll discloses the charge voltage is input to a first terminal of the adder circuit (fig. 4).

Regarding claim 8, Kroll discloses a diode is in a feedback loop of the adder circuit (fig. 8).

Regarding claim 9, Kroll discloses diode conducts current when the buffered voltage is less than the charge voltage (fig. 8).

Regarding claim 10, Kroll discloses diode does not allow the feedback loop to conduct current when the buffered voltage is greater than the charge voltage (fig. 8).

Regarding claims 11, 14, Kroll discloses a voltage square wave at a node of signal generating circuit (fig. 13); generating a charge voltage signal from charging a detachable first capacitor, if needed, switching a detachable second capacitor into the signal generating circuit by a CPU to extend the length of charge voltage (fig. 4); inputting the charge voltage signal to an input of the adder circuit (fig. 8); outputting to the node the charge voltage signal during the time when a voltage of the voltage square wave is lower than the charge voltage (fig. 8); outputting the voltage of the voltage square wave when the voltage of the voltage square wave is greater than the charge voltage (fig. 13).

Regarding claim 12 , Kroll discloses the step of generating the voltage square wave from the buffer circuitry (fig. 13).

Regarding claim 13, Kroll discloses the step of utilizing voltage divider circuitry to establish the charge voltage (fig. 4)

Regarding claim 15, Kroll discloses a voltage square wave is a buffer (fig. 13)

Regarding claim 16, Kroll discloses a dc voltage source (battery 76) (page 2, ref. 0038)

Regarding claim 17, Kroll discloses the step of inputting the charge voltage signal to an input of the adder circuit is RC circuitry (fig. 4).

Regarding claim 18, Kroll discloses an operational amplifier (fig. 5, page 2. ref. 0039).

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 19-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kroll in view of Heyning et al. (US 4,110,750).

Regarding claims 19-20, Kroll discloses all the limitations in claim 14 but fails to explicitly disclose a chime device.

However, Heyning discloses chime device (col. 1, lines 13-14; col. 2, lines 20-21).

Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Heyning in Kroll.

Doing so would produce a sound pleasing to the ear of the listener and the sound can be heard by everyone in the facility which sound is distinguishable from the external noise. Wherein the device is inexpensive, easily programmable of simple design for the sake of the users.

Regarding claims 22, 24, 26, Kroll discloses the signal circuit does not include transistors (fig. 4)

Regarding claims 21, 23, 25, Kroll discloses the generating circuit is not affected by an ambient temperature surround the signal generating circuit (page 4, ref.0053).

### ***Response to Arguments***

1. Applicant's arguments with respect to claims 1-26 have been considered but are moot in view of the new ground(s) of rejection.

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
4. Lee et al. (US 6,573,786) discloses an electric devices comprising an audio amplifier and methods for controlling such electronic devices.
5. Earls et al. (US 4,073,133) discloses an electronic chime and strike system.
6. Durkee (US 4,215,339) discloses an electronic chime.
7. Gaub et al. (US 5,633,625) discloses an electronic chime module and method.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Previl whose telephone number is 703 305-



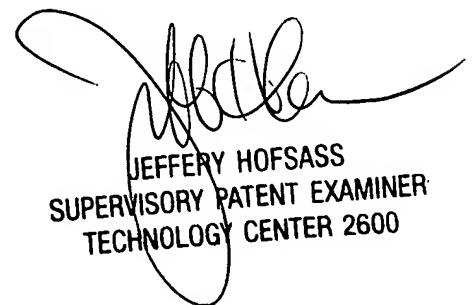
1028. The examiner can normally be reached on Monday-Thursday. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Hofsass can be reached on 703 305-4717. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872-9314 for regular communications and 703 872-9315 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305-4700.

Daniel Previl  
Examiner  
Art Unit 2636

DP  
May 19, 2004



JEFFERY HOFSSASS  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600